Electrical Soup

	Variable	Equations	Symbols	Units
	Potential Difference (Voltage)	$Potential\ Difference = \dfrac{Work}{Charge}$	$V = \dfrac{W}{q}$	$Volts(V) = \dfrac{Joules\ (J)}{Coulomb\ (C)}$ $Volts(V) = \dfrac{electron\ volts(eV)}{e\ (e)}$
	Current	$Current = \dfrac{\Delta charge}{time}$	$I = \dfrac{\Delta q}{t}$	$Amps\ (A) = \dfrac{C}{sec}$
Ohm's Law	Resistance	$Resistance = \dfrac{Voltage}{Current}$	$R = \dfrac{V}{I}$	$\Omega = \dfrac{V}{A}$
	Power	$Power = Voltage \times Current$	$P = VI$	$Watts\ (W) = V \bullet A$
	Work (Energy)	$Work = Voltage \times Current \times Time$	$W = VIt$	$Joules\ (J) = V \bullet A \bullet sec$
		$Work = \ Power \times time$	$W = Pt$	$Joules\ (J) = W \bullet sec$